

FIGURE 1

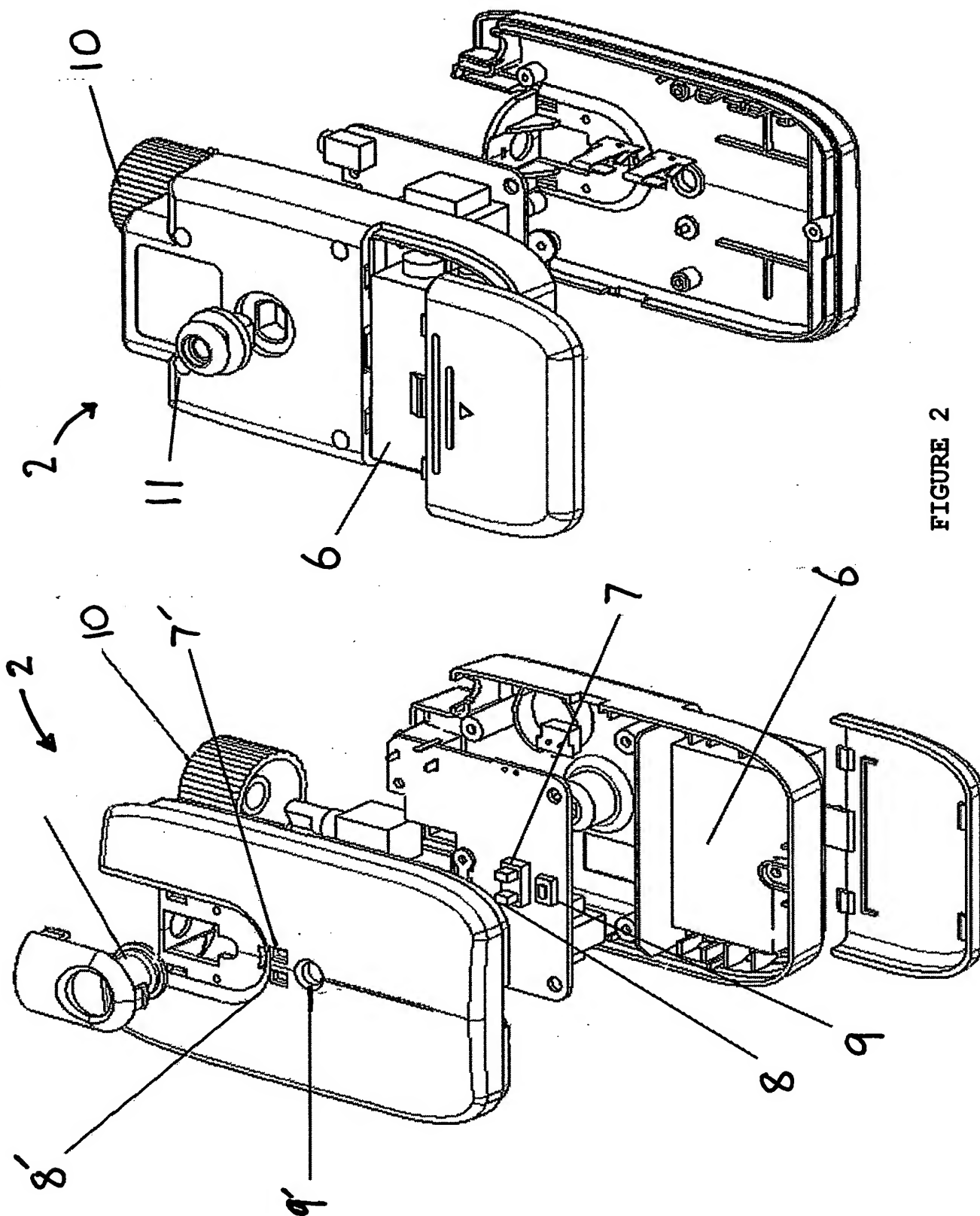
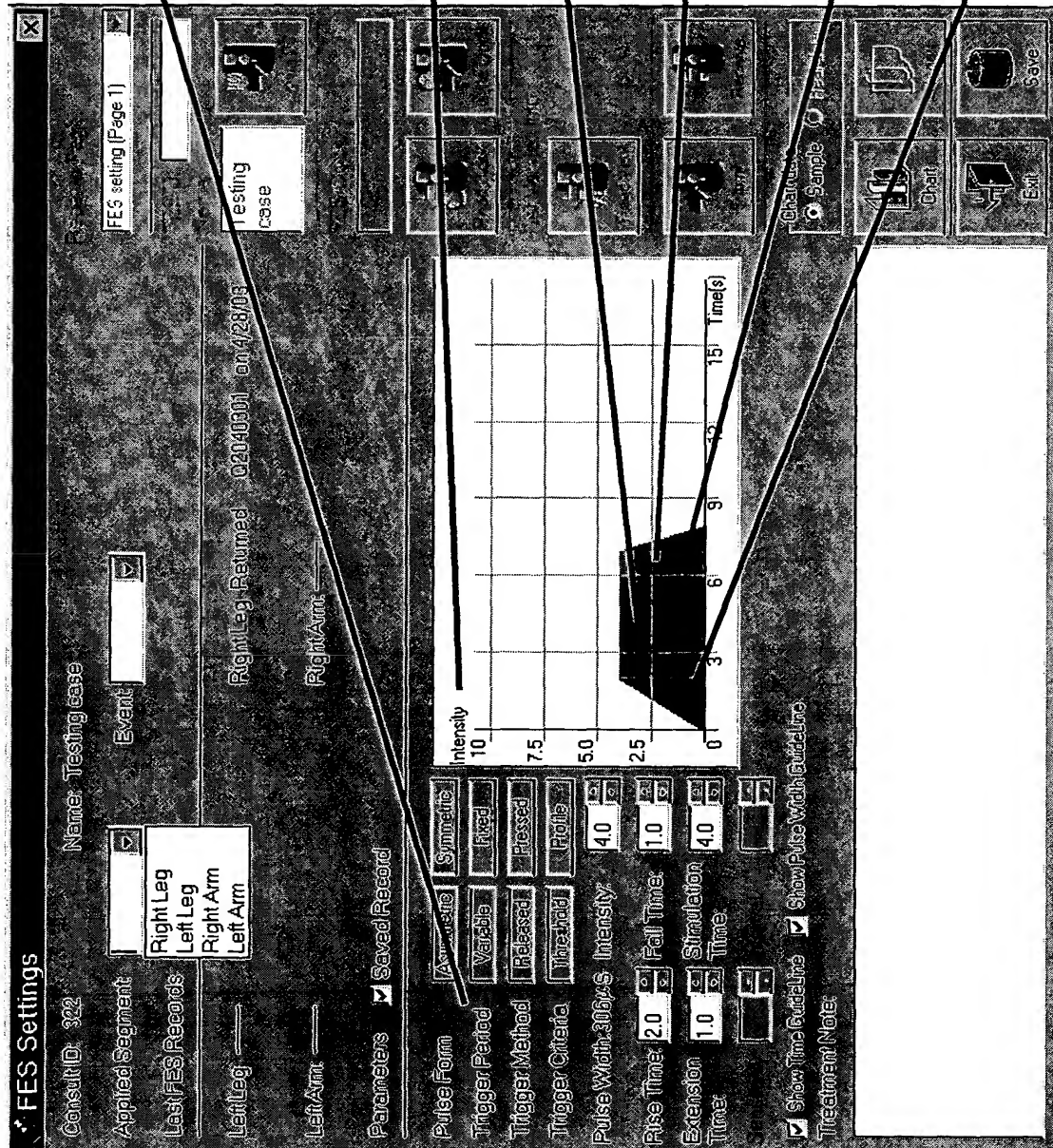


FIGURE 2



Different Parameter Settings:

- 1) Pulse form
- 2) Trigger period
- 3) Trigger method
- 4) Trigger Criteria

Level of Intensity

Stimulation Time

Extension Time

Fall Time

Rise Time

FIGURE 4

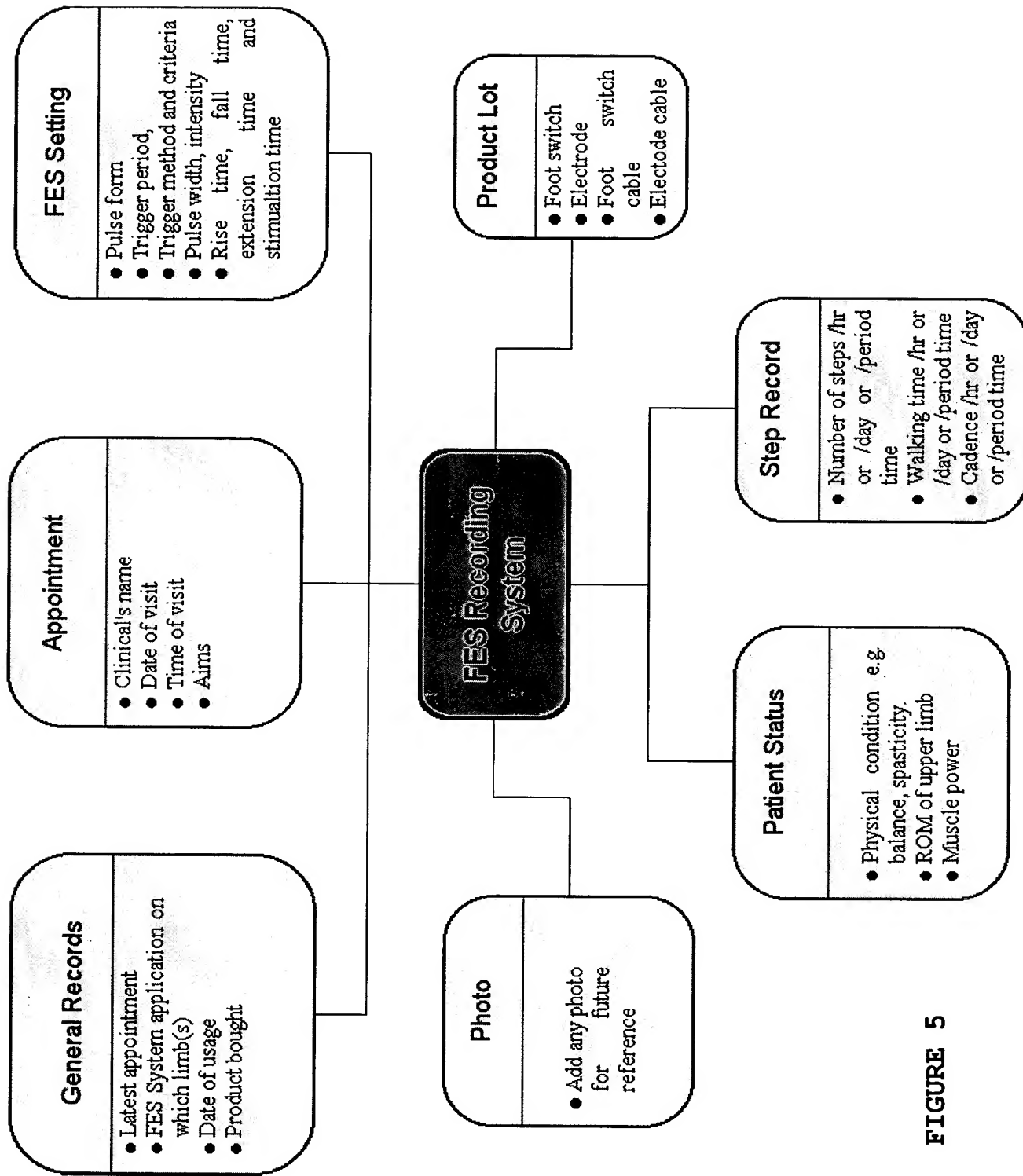


FIGURE 5

RECLINIC FES Record System

Windows Find Report

104

Location:

Hong Kong

FESPatientID:

HK-021000

Name (English):

Chu Ming Hon

Chinese:

ID No:

B916733(?)

Note:

Testing

127

PatientID:

021127

Sex:

Male

Birthdate:

15/07/1931

Age:

71.8

Occupation:

Stroke

Pathology:

126

Address:

Home Phone:

24379500

Mobile Phone:

Hemiplegic Side:

Right

Date of onset (d/m/y):

05/12/1999

125

Records:

1 / 156

Add New

Edit

Previous

Next

General Records

Appointment

FES Setting

Product Lot

Photo

Patient Status

Step Record

Appointment: 26/11/2001

Last FES Status: Event Lent

FESID: Q1430399

Date: 05/12/2002

Applied segment: Left Leg

Event Lent

FESID: A47611001

Date: 10/02/2003

Applied segment: Right Arm

Event Lent

FESID: Q1950301

Date: 10/02/2003

Applied segment: Left Arm

Event Sold

FESID: Q123

Date: 02/12/2002

Applied segment: Right Leg

Product bought: Foot Switches: 6, Electrodes: 11, Foot Switch Cables: 17, Electrode Cables: 7

121

122

123

124

131

130

129

128

Criteria: No Filter Applied

No. of Record shown/Total Records: 156/156 (100.0%)

31/03/2003

Figure 6

REClinic FES Record System Windows Find Report		125	
Location: Hong Kong	FES Patient ID: HK-021000	Chinese: Chu Ming Hon	ID No: 55157337
Patient ID: 021127		Sex: Male	Birth day, (d/m/y): 15/07/1931
Address: ??		Age: 71.8	Occupation: Stroke
Home Phone: 24379500		Mobile Phone: [Right]	Date of onset: (d/m/y) 05/12/1999
Note: No data recorded.			
Records: 1 / 156			
Add New			
Edit			
Previous			
Next			
Patient Status			
Step Record			
Photo			
Product Lot			
FES Setting			
Appointment			
General Records			
Appointment: 26/11/2001			
Last FES Status: Event Lent FESID: Q1430399 Date: 05/12/2002 Applied segment: Left Leg			
Event Lent FESID: A47611001 Date: 10/02/2003 Applied segment: Right Arm			
Event Lent FESID: Q1950301 Date: 10/02/2003 Applied segment: Left Arm			
Event Sold FESID: Q123 Date: 02/12/2002 Applied segment: Right Leg			
Product bought: Foot Switches: 6, Electrodes: 11, Foot Switch Cables: 17, Electrode Cables: 7			
Criteria: No Filter Applied		No. of Record shown/Total Records: 156/156 (100.0%)	
start		31/03/2003 15:54 Monday	
RE Clinic [REC] - Nov...		Microsoft Word	
FES Recording System		Printers and Faxes	
RE Clinic [REC] - Nov...		RE Clinic FES Record S...	

REClinic FES Record System

Windows Find Report

Location:

FESPatientID:

Name (English):

Chinese:

ID No:

Note:

Hong Kong

HK-021000

Chou Ming Hon

ES16733(7)

No data recorded.

PatientID:

Sex

Birthday:

Age:

Occupation:

Pathology:

021127

Male

15/07/1931

71.8

Stroke

Address:

Home Phone:

Mobile Phone:

Hemiplegic Side:

Date of onset:

24379500

Right

05/12/1999

Records:

1 / 156

Add New

Edit

Previous

Next

General Records

Appointment

FES Setting

Product Lot

Photo

Patient Status

Step Record

Clinician	Co-Clinician	Date	Time	Aims	Status
Dr. Raymond		19/02/2003	09:50	Fellow-up	Arrived
Sharon		10/02/2003	14:41	Fellow-up	Arrived
Sharon		23/12/2002	19:52	Fellow-up	Waiting
Sharon		23/12/2002	09:34	Fellow-up	Waiting
Sharon		15/12/2002	22:49	Fellow-up	Arrived
Sharon		03/12/2002	15:05	Fellow-up	Arrived
Sharon		02/12/2002	17:49	Fellow-up	Arrived
Sharon		15/10/2002	16:40	New Arrival	Arrived
Sharon		26/11/2001	21:05	Fellow-up	Waiting

Add New

Edit

134

135

Criteria: No Filter Applied

start

EN

31/03/2003

15:58

Monday

31/03/2003

REClinic FES Record S...

Printers and Faxes

Microsoft Word

FES Recording System

PE Clinic [REC] - Nov...

No. of Record shown/Total Records: 156/156 (100.0%)

Figure 9

Location: FESPatientID: Name (English): Chinese: ID No: Note:

Hong Kong HK-021000 Chu Ming Hon 15316733(7) No data recorded.

PatientID: Sex: Birthdate: id/m/y Age: Occupation: Pathology:

021127 Male 15/07/1931 71.8 / Stroke

Address: ??

Home Phone: Mobile Phone: Hemiplegic Side: Date of onset (d/m/y)

24379500 Right 05/12/1993

Records: 1 / 156

General Records Appointment FES Setting Product

Clinician	Co-Clinician	Date	Time	Aims	Status
Dr. Raymond		19/02/2003	09:50	Follow-up	Arrived
Sharon		10/02/2003	14:41	Follow-up	Arrived
Sharon		23/12/2002	19:52	Follow-up	Waiting
Sharon		23/12/2002	09:34	Follow-up	Waiting
Sharon		05/12/2002	22:47	Follow-up	Arrived
Sharon		03/12/2002	15:05	Follow-up	Arrived
Sharon		02/12/2002	17:49	Follow-up	Arrived
Sharon		15/10/2002	16:40	New Arrival	Arrived
Sharon		26/11/2001	21:05	Follow-up	Waiting

Add Appointment

Patient: Chu Ming Hon
 Physician: Sharon
 PhysicianID: REC01
 Co-Physician: Nil
 Co-PhysicianID:
 Date: 31/03/2003
 Time: 16:03
 Aim: Follow-up

Cancel Submit

Previous Next Edit

Add New Edit

136
137
138
139
140

Figure 10

REClinic FES Record System

Windows Find Report

Location:

FESPatientID: HK-021000

Chinese: Chu Ming Hon

ID No: B316733(7)

Note: No data recorded.

PatientID: 021127

Sex: Male

BirthDay: 15/07/1931

Age: 71.8

Occupation: Stroke

Pathology: Stroke

Address: ??

Home Phone: 24379500

Mobile Phone:

Hemiplegic Side: Right

Date of onset: 05/12/1993

Records: 1 / 156

General Records

Appointment

FES Setting

Product Lot

Photo

Patient Status

Step Record

Add New

Edit

Previous

Next

141

142

Add New

View

Consult ID	Applied segment	Date	FESID	Event	Record
316	Right Arm	10/02/2003	A47611001	Lent	Yes
316	Left Arm	10/02/2003	Q1950301	Lent	No
311	Right Arm	05/12/2002	150400	Sold	No
311	Left Leg	05/12/2002	Q1430399	Lent	No
307	Right Arm	03/12/2002	150400	Lent	No
299	Right Leg	02/12/2002	Q123	Sold	Yes
299	Left Leg	02/12/2002	Q321	Returned	No
1	Right Leg	15/10/2002	Q123	Lent	No
1	Left Leg	15/10/2002	Q321	Lent	No

Criteria: No Filter Applied.

No. of Record shown: 156 / 156 [100.0%]

31/03/2003

Figure 11

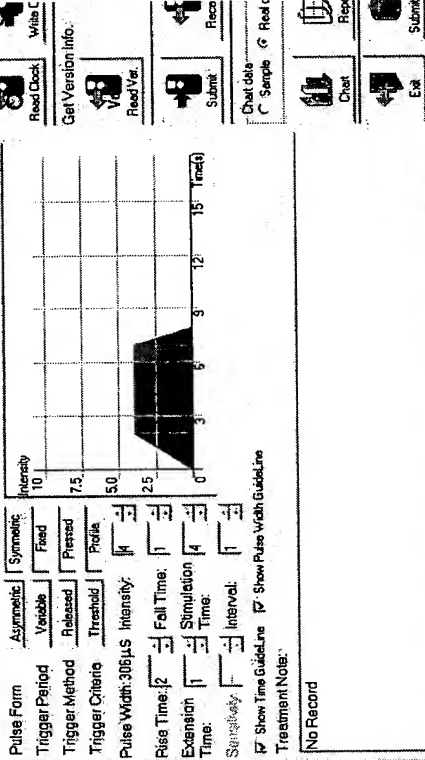
Chinese:	ID No:	Note:
	B916733(7)	Needs

Occupation: Pathology:

Applied Segment: Event: FESID: A47610001
 Last FES Records: FESID: _____ Name: _____
 [FES editing Page 1]

Left Arm: Lent	Q1950301	on 10/2/2003	Right Arm: Lent	A47611001	on 10/2/2003
Parameters <input checked="" type="checkbox"/> Saved Record					
FES Clock					

General Records		Appointment	
Consult ID	Applied segment	Date	FESID
316	Left Arm	10/02/2003	Q195030
311	Right Arm	05/12/2002	150400
311	Left Leg	05/12/2002	Q143030
307	Right Arm	03/12/2002	150400
299	Right Leg	02/12/2002	Q123
299	Left Leg	02/12/2002	Q123
1	Right Leg	15/10/2002	Q123
1	Left Leg	15/10/2002	Q321



No. of Record shown/Total Records: 156/156 (100.0%)

31/03/2003

Figure 12

31/03/2003

Figure 13

REClinic FES Record System

Windows Find Report

Location:	FESPatientID:	Name (English):	Chinese:	ID No:	Note:
Hong Kong	HK-021000	Chu Ming Hon		E916733(7)	No data recorded.

PatientID:	Sex:	Birthday:	Age:	Occupation:	Pathology:
021127	Male	15/07/1931	71.6		Stroke

Address: ??

Home Phone:	Mobile Phone:	Hemiplegic Side:	Date of onset(d/m/y)
24379500		Right	05/12/1993

General Records		Appointment		FES Setting		Product L	
Foot Switches	Electrodes	Foot Switch Cables	Electrode Cables	Date			
1	3	4	4	31/02/2003			
2	3	4	4	02/09/2003			

Records: 1 / 156

Previous Next

Add New

Add Items

Name: Chu Ming Hon Date: 31/03/2003

Items	Foot Switch	Electrode	F.S. Cable	Ele. Cable
	0	0	0	0

Cancel Submit

Criteria: No Filter Applied

No. of Record shown/Total Records: 156/156 (100.0%)

31/03/2003

Figure 14

REClinic FES Record System

Windows Find Report

Location:

FESPatientID: HK-021000

Name (English): Chu Ming Hon

Chinese:

ID No: B916733(7)

Note: No data recorded.

PatientID: 021127

Sex: Male

Birthday: 15/02/1931

Age: 71.8

Occupation: Stroke

Pathology:

Address: ??

Home Phone: 24378500

Mobile Phone:

Hemiplegic Side: Right

Date of onset (d/m/y): 05/12/1999

Records: 1 / 156

Add New

Edit

Previous

Next

General Records

Appointment

FES Setting

Product Lot

Photo

Patient Status

Step Record

Add New

Edit

Delete

No Photo Record

Criteria: No Filter Applied

No. of Record shown: 156 / 156 (100.0%)

31/03/2003

Figure 15

REClinic FES Record System

Windows Find Report

Location:

FESPatientID: Name (English): Chinese: ID No: Note:

Hong Kong HK-021000 Chu Ming Hon 0315733(7) No data recorded.

PatientID:

Sex: Birthdate: id/m/y Age: Occupation: Pathology:

021127 Male 15/07/1931 71.8 / Stroke

Address:

??

Home Phone:

Moible Phone:

Hemiplegic Side:

Date of onset (d/m/y):

24379500

Right

05/12/1993

Records: 1 / 156

General Records

Appointment

FES Setting

Product Lot

Photo

Patient Status

Step Record

Consult ID

Physician

Date

316 Sharon 10/02/2003

315 Sharon 23/12/2002

311 Sharon 05/12/2002

Add New

Previous

Next

Add New

Edit

Add New

View

Delete

145

146

147

Criteria: No Filter Applied




No. of Record shown/Total Records: 156/156 (100.0%)

31/03/2003

Figure 16

Location:	FESPatientID:	Name (English):
Hong Kong	HK-021000	Chu Ming Han
PatientID:	Sex:	Birthday: id/mm/yy
021127	Male	15/07/1931
Address:		Age: Occup
??		71.8

Home Phone: 24379500
Mobile Phone:
Hemiplegic Side: Right

 General Records	 Appointment	 FES S
Consult ID	Physician	Date
316	Sharon	10/02/2003
315	Sharon	23/12/2002
314	Sharon	09/12/2002
311	Sharon	05/12/2002

Criteria: No Filter Applied.

X

Patient Status Form

BackGround

Walking Aid	Quadrupod	Gait	5 Gait Deviation
Other Therapies	<input type="checkbox"/> PT <input checked="" type="checkbox"/> OT <input checked="" type="checkbox"/> Massage	<input type="checkbox"/> Acupuncture	<input checked="" type="checkbox"/> Other
Walking Time	0-15 15-30 30-60 60-90 90-120		
Living Condition	Home with caregiver Elderly home		Live alone
Skin Condition	Poor	Medium	Good
Balance	Poor	Medium	No present
Spasticity	Server		

BOM of Upper Limb

Left hand rise level	Right hand rise level
<input type="checkbox"/> No Motion <input type="checkbox"/> Hand to Waist <input checked="" type="checkbox"/> Hand to Mouth <input type="checkbox"/> Hand over head	<input type="checkbox"/> No Motion <input checked="" type="checkbox"/> Hand to Waist <input type="checkbox"/> Hand to Mouth <input type="checkbox"/> Hand over head

Muscle Power

Segment (Movement)	Left					Right							
Elbow	Flexion	0	1	2	3	4	5	0	1	2	3	4	5
	Extension	0	1	2	3	4	5	0	1	2	3	4	5
Wrist	Flexion	0	1	2	3	4	5	0	1	2	3	4	5
	Extension	0	1	2	3	4	5	0	1	2	3	4	5
Fingers	Power Grip	0	1	2	3	4	5	0	1	2	3	4	5
	Grip Release	0	1	2	3	4	5	0	1	2	3	4	5
Hip	Flexion	0	1	2	3	4	5	0	1	2	3	4	5
	Extension	0	1	2	3	4	5	0	1	2	3	4	5
Knee	Flexion	0	1	2	3	4	5	0	1	2	3	4	5
	Extension	0	1	2	3	4	5	0	1	2	3	4	5
Ankle	Hypereextension	No Yes											
	Dorsiflexion	1	2	3	4	5	0	1	2	3	4	5	
	Plantarflexion	0	1	2	3	4	5	0	1	2	3	4	5

(No data)

31/03/2003

Figure 17

REClinic FES Record System

Windows Find Report

Location:

FESPatientID:

Name (English):

Chinese:

ID No:

Note:

Hong Kong

HK-021000

Chu Ming Hoi

6316733(7)

No data recorded.

PatientID:

Sex:

Birthday:

Age:

Occupation:

Pathology:

021127

Male

15/07/1931

71.8

Stroke

Address:

??

Home Phone:

Mobile Phone:

Hemiplegic Side:

Date of onset:

24379500

Right

05/12/1999

Records:

1 / 156

Add New

Edit

Previous

Next

General Records

Appointment

FES Setting

Product Lot

Photo

Patient Status

Step Record

ConsultID

FESID

Date

Applied Limb

313A47611001

10022008

Right Arm

View

Delete

149

150

Criteria: No Filter Applied

No. of Record shown/ Total Records: 156/156 (100.0%)

31/03/2003

Figure 18

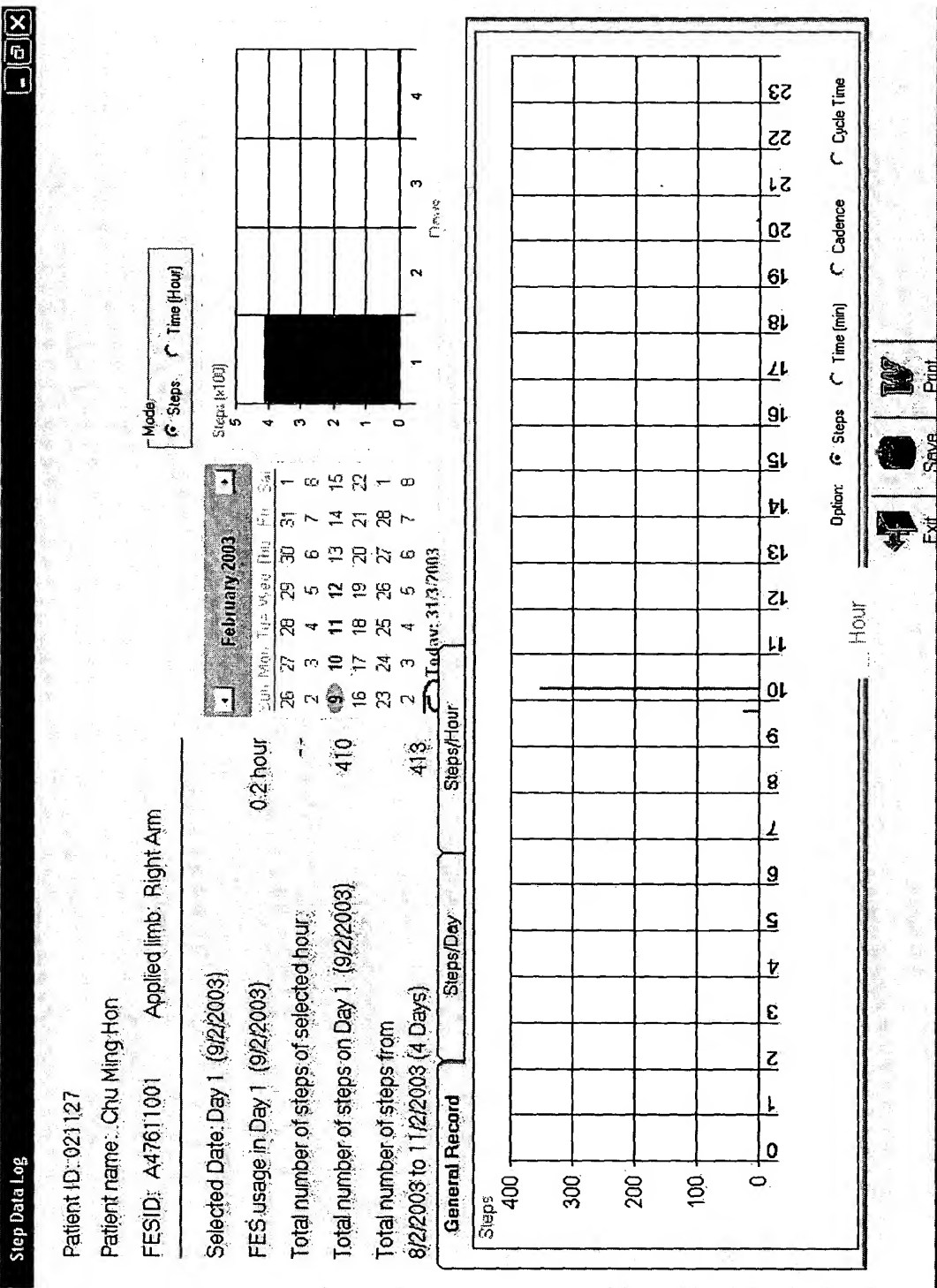


Figure 19

Mode	Steps	Time (Hour)
1	100	1.0
2	200	2.0
3	300	3.0
4	400	4.0
5	500	5.0
6	600	6.0
7	700	7.0
8	800	8.0
9	900	9.0
10	1000	10.0

February 2003

Date		Time		Location		Remarks	
26	27	28	29	30	31	1	

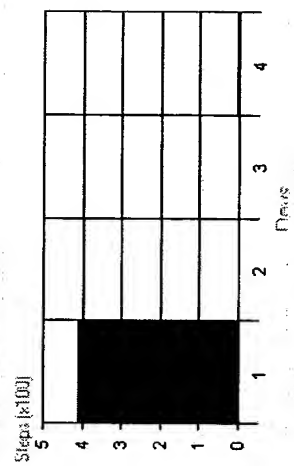
26	27	28	29	30	31	1
2	3	4	5	6	7	8

2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22

16	17	18	19	20	21	22
23	24	25	26	27	28	1

2 3 4 5 6 7 8
Today: 31/3/2003

CD-104av: 31/3/2003



FESID: A47611001 Applied limb: Right Arm

Selected Date: Day 1 (9/2/2003)		February 2003		Steps (x100)	
				1	2
0.2 hour		26	27	28	29
	--	2	3	4	5
FES usage in Day 1 (9/2/2003)		9	10	11	12
Total number of steps of selected hour:		16	17	18	19
Total number of steps on Day 1 (9/2/2003)	410	23	24	25	26
Total number of steps from		2	3	4	5
8/2/2003 to 11/2/2003 (4 Days)	413	2	3	4	5

General Record		Steps/Day					Steps/Hour																Mapping						
Day	Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	<input type="radio"/> Disabled	<input type="radio"/> Red	<input type="radio"/> Green	<input type="radio"/> Blue
1	8/2/2003	0	0	0	0	0	0	0	0	0	26		0	2	1	4	0	10	0	0	1	10	0	0	0	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	9/2/2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	10/2/2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	11/2/2003	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Figure 21

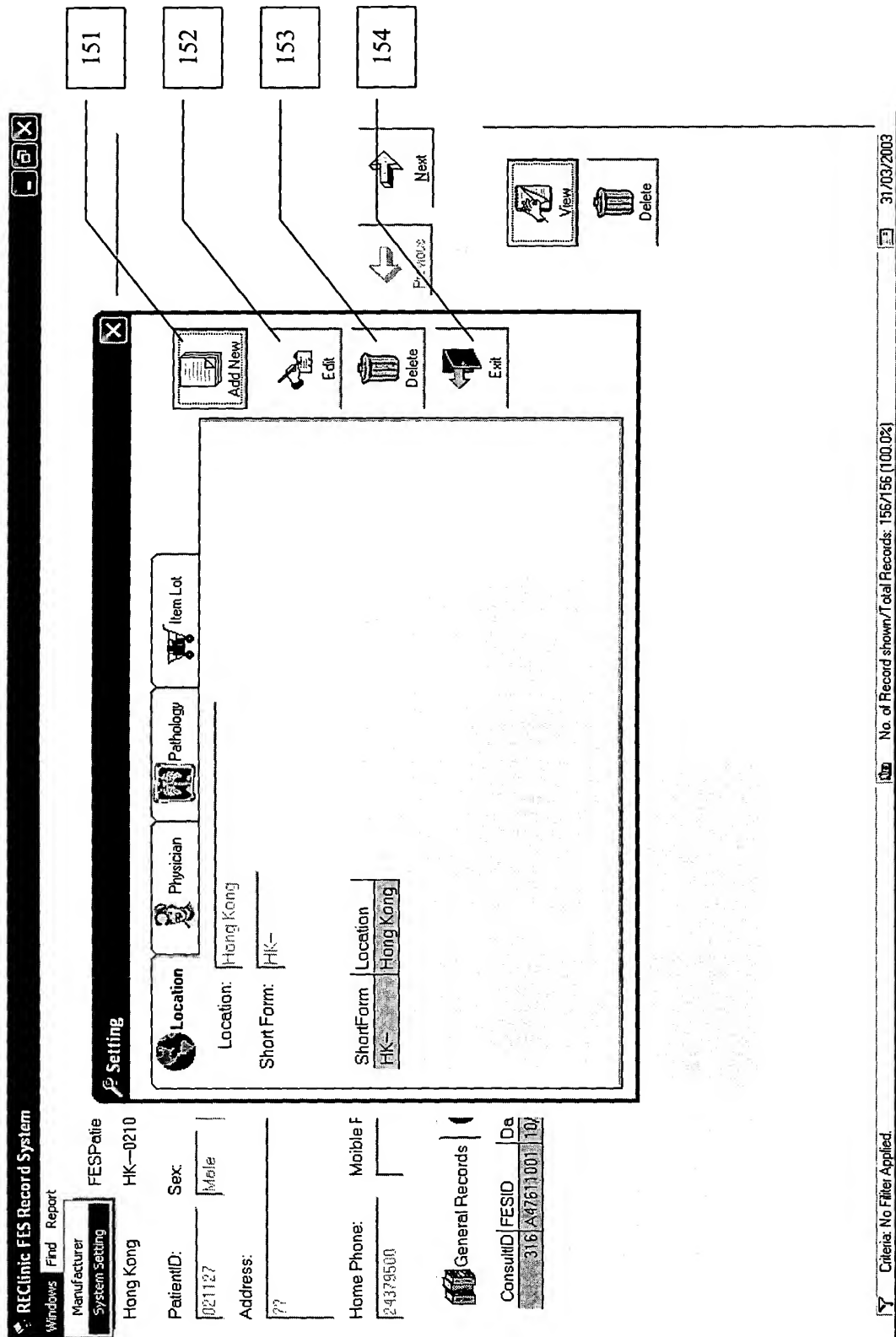


Figure 22

REClinic FES Record System

Windows Find Report

Manufacturer

System Setting

FESPatientID: 1000

Name (English): Chu Ming Han

Chinese:

ID No: B916733(7)

Note: No data recorded.

Hong Kong

PatientID: 021127

Male

Birthdate: 15/07/1931

Age: 71.8

Occupation: Stroke

Pathology:

Address: ??

Home Phone: 24379500

Phone:

General Records

Appointm

ConsulID	FESID	Date	App
316	A47611001	10/02/2003	Rig

Setting

Location: Hong Kong

Name: Wing

FES PhysicianID: HK-04

Center: REC

PhysicianID: REC03

Post: PO

Add New

Edit

Delete

Exit

Location	PhysicianID	ClinicPhysicianID	Name	Center	Post
Hong Kong	HK-04	REC03	Wing	REC	PO
Hong Kong	HK-03	Diana	Chow	REC	PO
Hong Kong	HK-02	REC02	Dr. Raymond	PolyU	Boss
Hong Kong	HK-01	REC01	Sharon	PolyU	PO

155

156

157

158

160

163

161

162

159

Next

View

Delete

Criteria: No Filter Applied

No. of Record shown/Total Records: 156/156 (100.0%)

31/03/2003

Figure 23

RECLinic FES Record System

Windows

Find

Report

Manufacturer

System Setting

FES Patient ID: Name (English): Chinese: ID No: Note:

HK-021000 Chu Ming Hon 0916733(7) No data recorded.

Hong Kong

021127

Sex: Male

Birth day: 15/07/1931

Age: Occupation: Pathology:

Pathology: Brain Degeneration

Address: ??

Home Phone: 2-4378500

Mobile Phone:

General Records

Appointm

Consult ID FES ID Date Apt

316 A47611001 10/02/2003 Rigi

164

165

166

167

Add New

Edit

Delete

Exit

Next

View

Delete

Location

Physician

Pathology

Item Lot

Pathology

Brain Degeneration

CP

Head Injury

Muscle Dystrophy

Other

Pulmonary Atresia

Spinal Injury

Stroke

Traffic Accident

Criteria: No Filter Applied.

No. of Record shown/Total Records: 156/156 [100.0%]

31/03/2003

Figure 24

REClinic FES Record System

Windows Find Report

Manufacturer System Setting

FES Patient ID: HK-021000

Name (English): Chu King Hon

Chinese:

ID No: B316733(7)

Note: No data recorded.

Patient ID: 021127

Sex: Male

Birth day: 15/07/1931

Age: 71.8

Occupation: Stroke

Pathology:

Address:

Home Phone: 24379500

Mobile Phone:

Hen

Plig

General Records

Consult ID

FES ID

Date

Applies

316

A47611001

10/02/2003

Right A

Setting

Location

Physician

Pathology

Item Lot

Date: 29/08/2002

Foot Switches

Foot Switch Cables

Electrodes

Electrode Cables

Total In	7	7	7	7
Total Out	7	19	24	10
Balance	0	-12	-17	-3
Date	29/08/2002	Foot Switches	Foot Switch Cables	Electrodes
	7	7	7	7

Add New

Edit

Delete

Exit

View

Delete

Next

168

169

170

171

Criteria: No Filter Applied

No. of Record shown/Total Records: 156/156 (100.0%)

31/03/2003

Figure 25

[illegible]

RECLINIC FES Record System

Windows

Find

Report

Search

Ctrl+H

Filter

Ctrl+F

Select All

LocalID:

000

Name (English):

Chu Ming Hon

Chinese:

ID No:

B316733(7)

Note:

No data recorded

Hong Kong

000

PatientID:

021127

Sex:

Male

Birthdate:

15/07/1931

Age:

71.8

Occupation:

Pathology:

Address:

??

Home Phone:

24379500

Mobile Phone:

Hemiplegic Side:

Right

General Records

Appointment

ConsultID

FESID

Date

Applied Limb

316

A47611001

10/02/2003

Right Arm

Record Filter

Name (like):

Sex:

Male

Age:

>=

50

Address (like):

Pathology:

Stroke

Hemiplegic Side:

Left

FES Information

Enabled

Status:

Ever

Event:

Lent

FES:

Any FES

Filter with data Criteria

Between

28/02/2003

And

31/03/2003

Reset

Cancel

Submit

Previous

Next

View

Delete

Criteria: No Filter Applied

No. of Record shown/Total Records: 156/156 (100.0%)

31/03/2003

Figur 27

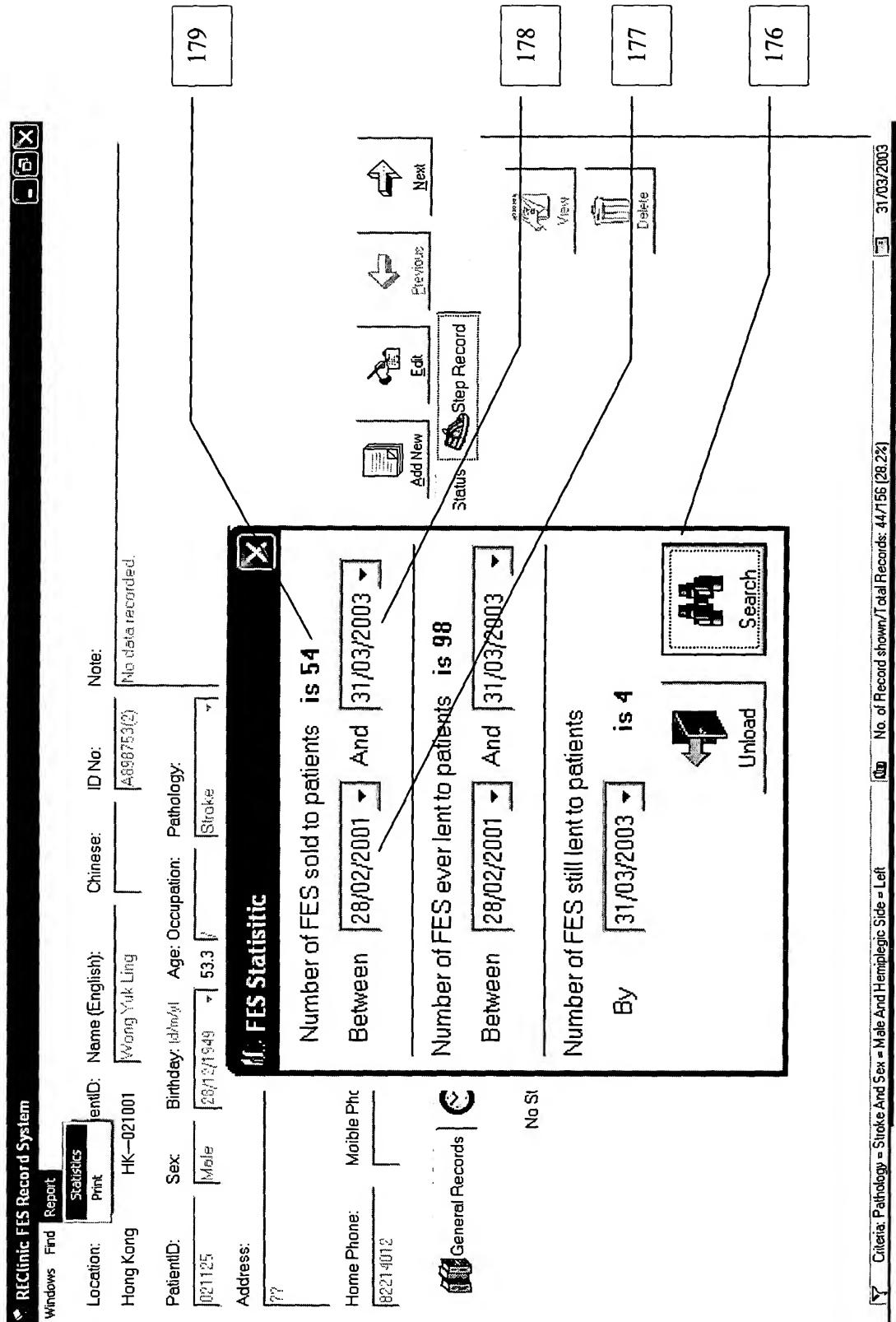
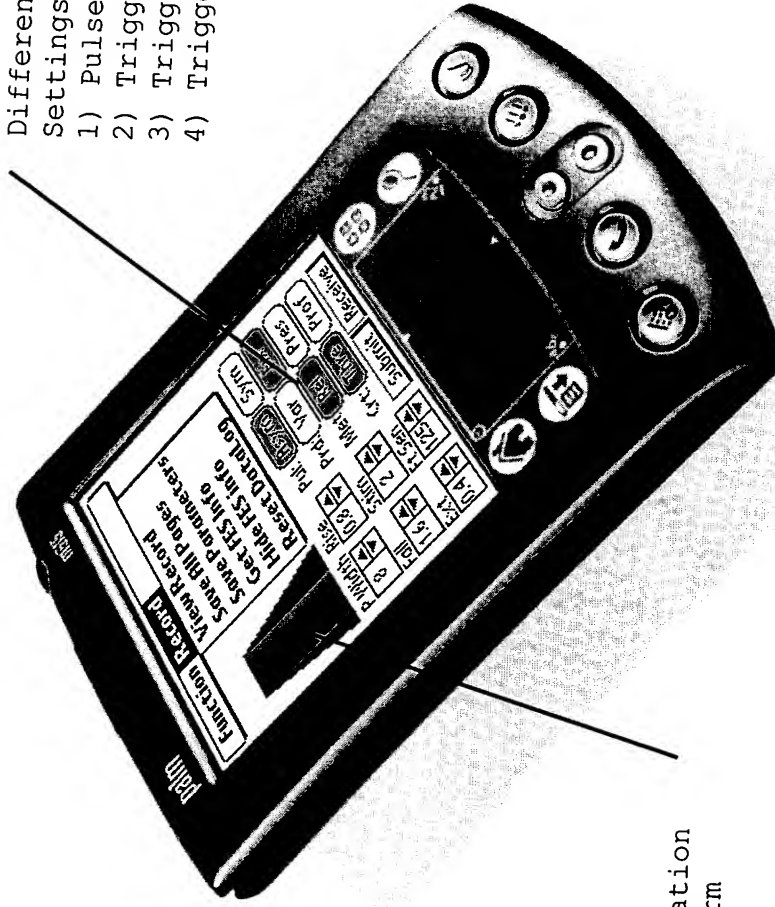


Figure 28

Different Parameter
Settings:

- 1) Pulse form
- 2) Trigger period
- 3) Trigger method
- 4) Trigger Criteria



Stimulation
Waveform

FIGURE 29

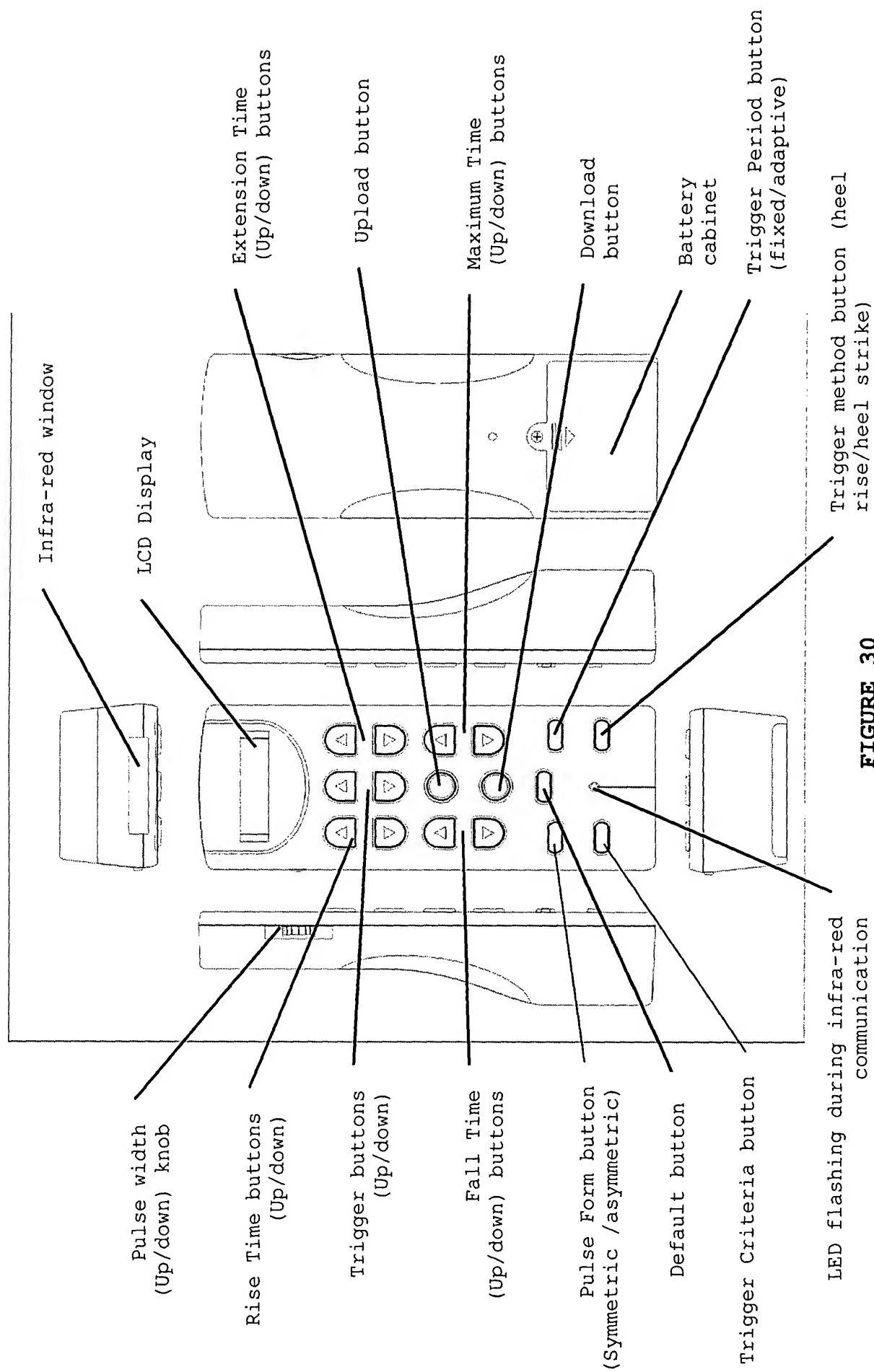


FIGURE 30